



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q65135

Naoya HASHIMOTO, et al.

Appln. No.: 09/892,862

Confirmation No.: 3124

Group Art Unit: 2834

Filed: June 28, 2001

Examiner: Addison, K.

For: ELECTROMAGNETIC DEVICE

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PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE CLAIMS:

Please enter the following amended claims:

1. (Twice Amended) An electromagnetic device mounted to an automotive transmission and used in an oil containing sulfur, said electromagnetic device comprising:
 - an outer casing;
 - a moveable shaft supported by said outer casing;
 - a bobbin disposed inside said outer casing so as to be disposed around said moveable shaft on a common axis with said moveable shaft;
 - a coil embedded in an outer molding, said coil being constructed by winding a conducting wire onto said bobbin,

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an electrically-insulating layer coated on said conducting wire; and
means for preventing sulfur compounds from permeating said electrically-
insulating layer and attendantly reducing the formation of sulfur compounds on a surface of said
conducting wire, thereby suppressing the reduction in adhesive of the electrically-insulating layer
to said conducting wire, wire breakage, and short circuiting between said conducting wires,
said preventing means comprising said electrically-insulating layer of a material
resistant to permeation by sulfur compounds.